

Dr. Reuber Lana Antoniazzi Junior

Research interests: Community ecology, biotic interactions (complex networks), vertical stratification, biodiversity changes, forest dynamics, insects (especially ants).

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Brazilian and Italian (double citizenship),
living in Texas, USA

EDUCATION

- **2016 – 2020** – Ph.D. in Science at *Instituto de Ecología A.C. (INECOL)*, Mexico
- **2013 – 2015** – Master degree in biological sciences at *Universidade Estadual de Montes Claros (Unimontes)*, Brazil
- **2006 – 2012** – B.S. in Biology at *Universidade Federal de Ouro Preto (UFOP)*, Brazil

PROFESSIONAL EXPERIENCE**

- **2020 – current** – Researcher
Visiting researcher at Montaña Aquatic Ecology Lab (Department of Biology – Stephen F. Austin State University; <https://www.carmengmontana.com/>) and Research Associate at Schalk lab (Arthur Temple College of Forestry & Agriculture – Stephen F. Austin State University; <https://cmschalk.weebly.com/>).
- **2020 – current** – Part time virtual lecturer at *Universidad Libre*
Virtual lecturer at a master degree program of *Universidad Libre (Unilibre), seccional Barranquilla*, Colombia. Courses: Systematic review and meta-analysis; Scientific writing.
- **2020 – 2020** – Part time technician at Pronatura
Technician in a project involving Royal Botanic Garden (Kew), *Universidad Nacional Autónoma de México (UNAM)*, and Pronatura Veracruz. Plant species in extinction, specially *Abies hickelii* Flous & Gausson.

** Only professional experience of after finishing the doctorate were included.

LANGUAGES

- Portuguese – native speaker
- Spanish – speaks, listens, reads, writes (advanced skills)
- English – speaks, listens, reads, writes (intermediate skills)

PUBLICATION LIST

ORIGINAL ARTICLES – PUBLISHED

12) Neves, F.S., **Antoniuzzi, R.**, Camarota, F., Pacelhe, F.T., Powell, S. (accepted). Spatiotemporal dynamics of the ant community in a dry forest differ by vertical strata but not by successional stages. *Biotropica*.

11) **Antoniuzzi R.**, Viana-Junior A.B., Pelayo-Martínez J., Ortiz-Lozada L., Neves F.S., Leponce M., Dáttilo W. (accepted). Distance-decay of compositional similarity in ground, but not in canopy ant assemblages in a Mexican tropical rainforest. *Journal of Tropical Ecology*.

10) **Antoniuzzi, R.**, Guevara R., García-Franco J.G., Janda M., Leponce M., Dáttilo W. (2020). Environmental drivers of ant spatial dominance over a tropical rainforest canopy at different tree scales. *Ecological Entomology*, early view. <https://doi.org/10.1111/een.12988>

9) **Antoniuzzi, R.**, Ahuatzin, D., Pelayo-Martínez, J., Ortiz-Lozada, L., Leponce, M., Dáttilo, W. (2020). On the Effectiveness of Hand Collection to Complement Baits When Studying Ant Vertical Stratification in Tropical Rainforests. *Sociobiology*, 67: 213-222. <http://dx.doi.org/10.13102/sociobiology.v67i2.4909>

8) Luna, P., Corro, E.J., **Antoniuzzi, R.**, Dáttilo, W. (2020). Measuring and Linking the Missing Part of Biodiversity and Ecosystem Function: The Diversity of Biotic Interactions. *Diversity*, 12: 86. <https://doi.org/10.3390/d12030086>

7) **Antoniuzzi, R.**, García-Franco, J., Janda, M., Leponce, M., Dáttilo, W. (2020). Diurnal foraging ant-tree co-occurrence networks are similar between canopy and understorey in a Neotropical rain forest. *Biotropica*, 52: 709-716. <https://doi.org/10.1111/btp.12773>

6) Dáttilo, W., Vásquez-Bolaños, M., Ahuatzin, D. A., **Antoniuzzi, R.**, Chávez-González, E., Corro, E., Luna, P., Guevara, R., Villalobos, F., Madrigal-Chavero, R., Falcão, J.C.F.F., Bonilla-Ramírez, A., García-Romero, A.R., de-la-Mora, A., Ramírez-Hernández, A., Escalante-Jiménez, A.L., Martínez-Falcón, A.P., Villarreal, A.I., García-Colón-Sandoval, A., Aponte, B, Juárez-Juárez, B., Castillo-Guevara, C., Moreno, C.E., Albor, C., Martínez-Tlapa, D.L., Huber-Sannwald, E., Escobar, F., Montiel-Reyes, F.J., Varela-Hernández, F., Castaño-Meneses, G., Pérez-Lachaud, G., Pérez-Toledo, G.R., Alcalá-Martínez, I., Rivera-Salinas I.S., Chairez-Hernández, I., Chamorro-Florescano, I.A., Hernández-Flores, J., Martínez-Toledo J., Lachaud, J.P., Reyes-Muñoz, J.L., Valenzuela-González, J.E., Horta-Vega, J.V., Cruz-Labana, J.D., Reynoso-Campos, J.J., Navarrete-Heredia, J.L., Rodríguez-Garza, J.A., Pérez-Domínguez, J.F., Benítez-Malvido, J., Ennis, K.K., Sáenz, L., Díaz-Montiel, L.A., Tarango-Arámbula, L.A., Quiroz-Robedo, L.N., Rosas-Mejía, M., Villalvazo-Palacios, M., Gómez-Lazaga, M., Cuautle, M., Aguilar-Méndez, M.J., Baena, M.L., Madora-Astudillo, M., Rocha-Ortega, M., Pale, M., García-Martínez, M.A., Soto-Cárdenas, M.A., Correa-Ramírez, M.M., Janda, M., Rojas, P., Torres-Ricario, R., Jones, R.W., Coates, R., Gómez-Acevedo, S.L., Ugalde-Lezama, S., Philpott, S., Joaqui, T., Marques, T., Zamora-Gutierrez, V., Martínez-Mandujano, V., Hajian-Forooshani, Z., MacGregor-Fors, I. (2020). Mexico's Ants: Who are They and Where do They Live?. *The Bulletin of the Ecological Society of America*, 101: e01666. <https://doi.org/10.1002/bes2.1666>

5) Dáttilo, W., Vásquez-Bolaños, M., Ahuatzin, D. A., **Antoniuzzi, R.**, Chávez-González, E., Corro, E., Luna, P., Guevara, R., Villalobos, F., Madrigal-Chavero, R., Falcão, J.C.F.F., Bonilla-Ramírez, A., García-Romero, A.R., de-la-Mora, A., Ramírez-Hernández, A., Escalante-Jiménez, A.L., Martínez-Falcón, A.P., Villarreal, A.I., García-Colón-Sandoval, A., Aponte, B, Juárez-Juárez, B., Castillo-Guevara, C., Moreno, C.E., Albor, C., Martínez-Tlapa, D.L., Huber-Sannwald, E., Escobar, F., Montiel-Reyes, F.J., Varela-Hernández, F., Castaño-Meneses, G., Pérez-Lachaud, G., Pérez-Toledo, G.R., Alcalá-Martínez, I., Rivera-Salinas I.S., Chairez-Hernández, I., Chamorro-Florescano, I.A., Hernández-Flores, J., Martínez-Toledo J., Lachaud, J.P., Reyes-Muñoz, J.L., Valenzuela-González, J.E., Horta-Vega, J.V., Cruz-Labana, J.D., Reynoso-Campos, J.J., Navarrete-Heredia, J.L., Rodríguez-Garza, J.A., Pérez-Domínguez, J.F., Benítez-Malvido, J., Ennis, K.K., Sáenz, L., Díaz-Montiel, L.A., Tarango-Arámbula, L.A., Quiroz-Robedo, L.N., Rosas-Mejía, M., Villalvazo-Palacios, M., Gómez-Lazaga, M., Cuautle, M., Aguilar-Méndez, M.J., Baena, M.L.,

Madora-Astudillo, M., Rocha-Ortega, M., Pale, M., García-Martínez, M.A., Soto-Cárdenas, M.A., Correa-Ramírez, M.M., Janda, M., Rojas, P., Torres-Ricario, R., Jones, R.W., Coates, R., Gómez-Acevedo, S.L., Ugalde-Lezama, S., Philpott, S., Joaqui, T., Marques, T., Zamora-Gutierrez, V., Martínez-Mandujano, V., Hajian-Forooshani, Z., MacGregor-Fors, I. (2020). Mexico ants: incidence and abundance along the Nearctic–Neotropical interface. *Ecology*, 101: e02944. <https://doi.org/10.1002/ecy.2944>

4) **Antoniuzzi, R.**, Garro, R.N., Dáttilo, W., Ribeiro, S.P., & Neves, F.S. (2019). Ant species richness and interactions in canopies of two distinct successional stages in a tropical dry forest. *The Science of Nature*, 106: 20. <https://doi.org/10.1007/s00114-019-1614-0>

3) Macedo-Reis, L.E., Leite, A.C., Guerra, T.J., **Antoniuzzi, R.**, & Neves, F.S. (2019). Suspended leaf litter in an understory treelet as habitat extension for ground-dwelling ants in the Atlantic Forest, south-eastern Brazil. *Journal of Tropical Ecology*, 35: 247-250. <https://doi.org/10.1017/S0266467419000154>

2) Luna, P., Corro, E.J., Ahuatzin-Flores, D.A., **Antoniuzzi, R. L.**, Barrozo, N., Chavez-Gonzalez, E., Morales-Trejo, J.J. & Dattilo, W. (2017). The risk of use small matrices to measure specialization in host–parasite interaction networks: a comment to Rivera-García et al.(2016). *Parasitology*, 144: 1102-1106. <https://doi.org/10.1017/S0031182017000361>

1) Bornschein, M.R., Firkowski, C.R., Belmonte-Lopes, R., Corrêa, L., Ribeiro, L.F., Morato, S.A., **Antoniuzzi-Jr, R.L.**, Reinert, B.L., Meyer, A.L.S., Cini, F.A. & Pie, M.R. (2016). Geographical and altitudinal distribution of *Brachycephalus* (Anura: Brachycephalidae) endemic to the Brazilian Atlantic Rainforest. *PeerJ*, 4: e2490. <https://doi.org/10.7717/peerj.2490>

ORIGINAL ARTICLES – SUBMITTED*

1) **R. Antoniuzzi**, F. Camarota, M. Leponce, W. Dáttilo. Discovery-defense strategy drives social foraging of ants in tropical rain forest canopies.

2) W. DaRocha, **R. Antoniuzzi**, J.H.C. Delabie, G. Schrothe, G.W. Fernandes, F.S. Neves. Isolated and large trees shape bromeliad abundance and ant species richness in both agroforestry and preserved Atlantic Forest canopies.

3) L.G.R. Oliveira-Santos, **R. Antoniuzzi**, R.D. Loyola, A.B. Vargas. Habitat Structure and Vertical Stratification of Ant Assemblages across Forest Patches in the Brazilian Pantanal.

4) G.Q. Romero, T. Gonçalves-Souza, T. Roslin, R. J. Marquis, N.A.C. Marino, V. Novotny, T. Cornelissen, J. Orivel, S. Sui, G. Aires, **R. Antoniuzzi**, W. Dáttilo, C.P.B. Breviglieri, A. Busse, H. Gibb, T.J. Izzo, T. Kadlec, V. Kemp, M. Kersch-Becker, M. Knapp, P. Kratina, R. Luke, S. Majnarić, R. Maritz, P.M. Martins, E. Mendesil, J. Michalko, A. Mrazova, S. Novais, C.C. Pereira, M.S. Perić, J. Petermann, S.P. Ribeiro, K. Sam, M.K. Trzcinski, C. Vieira, N. Westwood, M.L. Bernaschini, V. Carvajal, E. González, M. Jausoro, S. Kaensin, F. Ospina, J.C. Perez, M. Quesada, P. Rogy, D. Srivastava, S. Szpryngiel, A.J.M. Tack, T. Teder, M. Videla, M.L. Viljur, J. Koricheva. Climate variability and drought modulate the role of structural refuges for arthropods: a global experiment.

5) R.R. Silva, F. Martello, R.M. Feitosa, O.G.M. Silva, L.P. Prado, C.R.F. Brandão, E.Z. Albuquerque, M.S.C. Morini, J.H.C. Delabie, E.C.S. Monteiro, A.E.O. Alves, A.L. Wild, A.V. Christianini, A. Arnhold, A.C.C. Ferreira, A.M. Oliveira, A.D. Santos, A. Galbán, A.A. Oliveira, A.G.M. Subtil, A.M. Dias, A.E.C. Campos, A.M. Waldschmidt, A.V.L. Freitas, A.N. Avalos, A.L.S. Meyer, A.F. Sánchez-Restrepo, A.V. Suarez, A.S. Souza, A.C.M. Queiroz, A.J. Mayhé-Nunes, A.C. Reis, B.C. Lopes, B. Guénard, B.M. Trad, B. Caitano, B. Yagound, B. Pereira-Silva, B.L. Fisher, B.L.P. Tavares, B.B. Moraes, B.K.C. Filgueiras, C. Guarda, C.R. Ribas, C.E. Cereto, C.E.L. Esbérard, C.E.G.R. Schaefer, C.I. Paris, C. Bueno, C.J. Lasmar, C.B. Costa-Milanez, C.J. Lutinski, C.M. Ortiz-Sepulveda, C.T. Wazema, C.S.F. Mariano, C.A. Barrera, C.L. Klunk, D.O. Santana, D. Larrea, D.C. Rother, D.R. Souza-Campana, D.Y. Kayano, D.L. Alves, D.S. Assis, D.V. Anjos, E.C.B. França, E.F. Santos, E.A. Silva, E.V. Santos, E.B.A. Koch, E.L.S. Siqueira, E.A. Almeida, E.S. Araujo, E. Villarreal, E. Becker, E.O. Canedo-Júnior, E.A. Santos-Neto, E.P. Economo, E.S. Araújo-

Oliveira, F. Cuezco, F.S. Magalhães, F.M. Neves, F.B. Rosumek, F.E. Dorneles, F.B. Noll, F.V. Arruda, F.A. Esteves, F.N. Ramos, F.R.M. Garcia, F.S. Castro, F. Serna, F.R. Marcineiro, F.S. Neves, G.B. Nascimento, G.F. Jacintho, G.P. Camacho, G.T. Ribeiro, G.M. Lourenço, G.R. Soares, G.A. Castilho, G.P. Alves, G.A. Zurita, G.H.M. Santos, H.C. Onody, H.S. Oliveira, H.L. Vasconcelos, H.F. Paulino-Neto, H. Brant, I.R. Coelho, I.J.M.T. Gomes, I.R. Leal, I.A. Santos, I.M. Bellocq, I.C.S. Santos, I.O. Fernandes, I.C. Nascimento, J.M. Queiroz, J.E. Lattke, J. Majer, J.H. Schoereder, J.O. Dantas, J. Andrade-Silva, J.M. Díaz-Guastavino, J.S. Santos, J. Filloy, J.C.M. Chaul, J.A. Lutinski, K.S. Carvalho, K.S. Ramos, K.L.S. Sampaio, L.A.M. Ribeiro, L. Sousa-Souto, L.N. Paolucci, L. Elizalde, L.R. Podgaiski, L. Chifflet, L.J. Carvalho-Leite, L. Calcaterra, L.E. Macedo-Reis, L.F.S. Magnago, M.S. Madureira, M.M. Silva, M.R. Pie, M. Uehara-Prado, M.A. Pizo, M.A. Pesquero, M.A.F. Carneiro, M.A. Busato, M.F.B. Almeida, M. Tibcherani, M.S. Casimiro, M.U.V. Ronque, M.M.S. Costa, M.A. Angotti, M.V. Oliveira, M. Leponce, M.M.G. Imata, M.F.O. Martins, M.A. Ulysséa, N.B. Espirito-Santo, N. Ladino, N.S. Balbino, N.S. Silva, N.V.H. Safar, P.L. Andrade, P.H.S.A. Camargo, P.S. Oliveira, P. Dodonov, P. Luna, P.S. Ward, P.E. Hanisch, P.S. Silva, R. Divieso, R.L. Carvalho, R.B.F. Campos, **R. Antoniazzi**, R.E. Vicente, R. Giovenardi, R.I. Campos, R.R.C. Solar, R.T. Fujihara, R.J. Santos, R. Fagundes, R.J. Guerrero, R.S. Probst, R.S. Jesus, R. Silvestre, R.A. López-Muñoz, R.S. Ferreira-Châline, R.P.S. Almeida, S.M. Pinto, S. Santoandré, S.L. Althoff, S.P. Ribeiro, T. Jory, T.T. Fernandes, T.O. Andrade, T.P.L. Pereira, T. Gonçalves-Souza, T.S.R. Silva, V.N.G. Silva, V.M. Lopez, V.R. Tonetti, V.A.F. Nacagava, V.M. Oliveira, W. Dáttilo, W.D. DaRocha, W. Franco, W. Dröse, W.F. Antonialli-Junior, M.C. Ribeiro. The Atlantic Ants, the data paper of ants from Brazilian Atlantic Forest.

*Papers *in preparation* were omitted

BOOK CHAPTERS

2) **Antoniazzi, R.**, Dáttilo, W., & Rico-Gray, V. (2018). A useful guide of main indices and software used for ecological networks studies. In Ecological Networks in the Tropics (pp. 185-196). Springer, Cham. https://doi.org/10.1007/978-3-319-68228-0_13

1) Silveira, F. A., Santos, A. J., Vidigal, T. H. D. A., Machado, A. B. M., Paprocki, H., Vaz-de-Melo, F. Z., Grossi, E. J., Ferreira, R. L., Kumagai, A. F., Fonseca, N. G., Castro, F. S., Gontijo, A. B., Antoniazzi-Junior, R. L. & Ribeiro, S. P. (2009). Diversidade de invertebrados terrestres. In Biota Minas: diagnóstico do conhecimento sobre a biodiversidade no Estado de Minas Gerais—subsídios ao Programa Biota Minas (pp. 123-159) Fundação Biodiversitas, Belo Horizonte.

REVIEWER FOR SCIENTIFIC JOURNALS

- Acta Oecologica
- Austral Ecology
- Entomobrasilis
- Journal of Arid Environments
- Sociobiology

SCOLARSHIPS

- **2016 – 2020** – Scholarship awarded for Ph.D. studies at the Instituto de Ecología A.C. by the *Consejo Nacional de Ciencia y Tecnología* (CONACyT), Mexico government.
- **2013 – 2015** – Scholarship awarded for Master studies at the *Universidade Estadual de Montes Claros* by the *Coordenação de Aperfeiçoamento de Pessoal de Nível Superior* (CAPES), Brazil government.

- **2009 – 2011** – Scholarship awarded for undergraduate scientific initiation program at the *Universidade Federal de Ouro Preto* by the *Fundação de Amparo à Pesquisa do Estado de Minas Gerais* (FAPEMIG/PIBIC), Brazil government.

ACADEMIC AFFILIATION

2020 – current – Association for Tropical Biology and Conservation (ATBC); Student member.

SKILLS

Analytical: R programming; applying network tools and several statistical analysis (frequentist, models, spatial statistics), graphics.

Field: Tree climber since 2007 using single rope-technique. Insect sampling since 2007, from ground to canopy, using many sampling methods: tuna and honey baits, pitfall traps, hand collecting, malaise (flying insects), butterfly portable traps (Van Someren-Rydon – VSR), entomological umbrella (foliage beating). Standard forest stand assessments: diameter at breast height (DBH), tree height, basal area. Tree identification of some tree species from Brazilian savannah, tropical dry forests, tropical cloud forests, and tropical rain forests. Fieldwork in tropical and subtropical environments, in Brazil and Mexico, such as mountains, savannah, tropical rain forest, tropical cloud forest, and tropical dry forest.

Laboratory: Insect taxonomy, mounting, and preservation. Routines of entomological collections (specially ants). Ant identification of many ant species from Neotropical ant fauna (Brazil and Mexico).